

**IN THE UNITED STATES DISTRICT COURT  
FOR THE EASTERN DISTRICT OF TEXAS  
MARSHALL DIVISION**

HEADWATER RESEARCH LLC

*Plaintiff,*

v.

SAMSUNG ELECTRONICS CO., LTD and  
SAMSUNG ELECTRONICS AMERICA, INC.,

*Defendants.*

Case No. 2:22-CV-00422-JRG-RSP

**DEFENDANTS' MOTION FOR SUMMARY JUDGMENT  
OF NON-INFRINGEMENT RELATING TO SAMSUNG'S  
SLEEPING AND DEEP SLEEPING FEATURES**



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**EXHIBIT INDEX & NOTES**

<b>Exhibit</b>	<b>Description</b>
A	Email from Headwater to Samsung, dated May 6, 2024
B	Expert Report of Dr. Richard D. Wesel, dated March 29, 2024
C	Rebuttal Report of Dr. Dan Schonfeld, dated April 19, 2024
D	Excerpts from the Deposition of Dr. Richard D. Wesel, taken May 1, 2024

\* Emphasis added unless otherwise noted.

\*\* Form objections are omitted from deposition transcript quotations unless otherwise noted.

\*\*\* In this brief, “Headwater” refers to Plaintiff and its purported predecessors.

\*\*\*\* In this brief, “UMF” refers to Undisputed Material Fact.

Defendants Samsung Electronics Co., Ltd. and Samsung Electronics America, Inc. (together, “Samsung”) respectfully move for partial summary judgment that Plaintiff Headwater Research LLC (“Headwater”) failed to prove infringement of any asserted claim by Samsung’s currently-accused Sleeping and Deep Sleeping features.

## **I. STATEMENT OF ISSUE**

Whether Dr. Schonfeld’s undisputed opinion that “Samsung’s Sleeping and Deep Sleeping features” do not infringe any asserted claim of any asserted patent precludes a finding of infringement based on “Samsung’s Sleeping and Deep Sleeping features”?

## **II. STATEMENT OF UNDISPUTED MATERIAL FACTS**

1. Headwater alleges only literal infringement. Ex. A (5/6/2024 Headwater Email).
2. Headwater served an Opening Report on Infringement on behalf of its expert, Dr. Richard D. Wesel, on March 29, 2024 (“Wesel Opening Report”). Ex. B (Wesel Opening Report).
3. Dr. Wesel’s Opening Report includes “Samsung’s Sleeping and Deep Sleeping features” in its list of “Accused Products and Features.” *See* Ex. B (Wesel Opening Report) ¶¶ 134-135; Ex. C (Schonfeld Rebuttal Report) ¶¶ 195-96.
4. Dr. Wesel’s Opening Report occasionally refers to “Samsung’s Sleeping and Deep Sleeping features” as “Samsung’s Background Usage Limits.” *See* Ex. B (Wesel Opening Report) ¶¶ 2354, 2358, 2368, 2373, 2376; Ex. C (Schonfeld Rebuttal Report) ¶ 195.
5. Dr. Wesel’s Opening Report includes a section titled “The Infringing Features,” which alleges that “Samsung’s Sleeping and Deep Sleeping features” / “Samsung’s Background Usage Limits” infringe claims 1, 2, 5, 8, 9, 12, 17, and 18 of U.S. Patent No. 9,143,976 (“the ’976 patent”). Ex. B (Wesel Opening Report) ¶¶ 2354-60; Ex. D (Wesel Dep. Tr.) at 131:1-11; Ex. C (Schonfeld Rebuttal Report) ¶ 158.
6. Dr. Wesel’s Opening Report’s section on “The Infringing Features” does not allege

[REDACTED]

that “Samsung’s Sleeping and Deep Sleeping features” / “Samsung’s Background Usage Limits” infringe any asserted claims of the following asserted patents: U.S. Patent No. 9,137,701 (“the ’701 patent”); U.S. Patent No. 9,271,184 (“the ’184 patent”); U.S. Patent No. 9,521,578 (“the ’578 patent”); U.S. Patent No. 9,277,445 (“the ’445 patent”); U.S. Patent No. 9,277,433 (“the ’433 patent”); U.S. Patent No. 9,609,544 (“the ’544 patent”); U.S. Patent No. 11,405,224 (“the ’224 patent”). Ex. B (Wesel Opening Report) ¶¶ 2353-88; Ex. D (Wesel Dep. Tr.) at 131:1-11.

7. Dr. Wesel’s Opening Report does not include any patent infringement analysis with respect to “Samsung’s Sleeping and Deep Sleeping features” for the ’976 patent, and does not allege that “Samsung’s Sleeping and Deep Sleeping features” satisfy any limitation of any asserted claim for the ’976 patent. *See generally* Ex. B (Wesel Opening Report) ¶¶ 146-607; Ex. D (Wesel Dep. Tr.) at 176:2-7.

8. Dr. Wesel’s Opening Report does not include any patent infringement analysis with respect to “Samsung’s Sleeping and Deep Sleeping features” for the ’701 patent, and does not allege that “Samsung’s Sleeping and Deep Sleeping features” satisfy any limitation of any asserted claim for the ’701 patent. *See generally* Ex. B (Wesel Opening Report) ¶¶ 608-78.

9. Dr. Wesel’s Opening Report does not include any patent infringement analysis with respect to “Samsung’s Sleeping and Deep Sleeping features” for the ’184 patent, and does not allege that “Samsung’s Sleeping and Deep Sleeping features” satisfy any limitation of any asserted claim for the ’184 patent. *See generally* Ex. B (Wesel Opening Report) ¶¶ 679-916.

10. Dr. Wesel’s Opening Report does not include any patent infringement analysis with respect to “Samsung’s Sleeping and Deep Sleeping features” for the ’433 patent, and does not allege that “Samsung’s Sleeping and Deep Sleeping features” satisfy any limitation of any asserted claim for the ’433 patent. *See generally* Ex. B (Wesel Opening Report) ¶¶ 917-1108.

11. Dr. Wesel's Opening Report does not include any patent infringement analysis with respect to "Samsung's Sleeping and Deep Sleeping features" for the '445 patent, and does not allege that "Samsung's Sleeping and Deep Sleeping features" satisfy any limitation of any asserted claim for the '445 patent. *See generally* Ex. B (Wesel Opening Report) ¶¶ 1109-1709.

12. Dr. Wesel's Opening Report does not include any patent infringement analysis with respect to "Samsung's Sleeping and Deep Sleeping features" for the '578 patent, and does not allege that "Samsung's Sleeping and Deep Sleeping features" satisfy any limitation of any asserted claim for the '578 patent. *See generally* Ex. B (Wesel Opening Report) ¶¶ 1710-1929.

13. Dr. Wesel's Opening Report does not include any patent infringement analysis with respect to "Samsung's Sleeping and Deep Sleeping features" for the '224 patent, and does not allege that "Samsung's Sleeping and Deep Sleeping features" satisfy any limitation of any asserted claim for the '224 patent. *See generally* Ex. B (Wesel Opening Report) ¶¶ 2203-2341.

14. Dr. Wesel's Opening Report does not include any patent infringement analysis with respect to "Samsung's Sleeping and Deep Sleeping features" for the '544 patent, and does not allege that "Samsung's Sleeping and Deep Sleeping features" satisfy any limitation of claims 1, 6, 11, and 18 of the '544 patent. *See generally* Ex. B (Wesel Opening Report) ¶¶ 1930-2199.

15. Dr. Wesel's Opening Report mentions "Samsung's Sleeping and Deep Sleeping features" for dependent claim 21 of the '544 patent. Ex. B (Wesel Opening Report) ¶ 2201.

16. Dr. Schonfeld's Rebuttal Report on Noninfringement (the "Schonfeld Rebuttal Report") pointed out that Dr. Wesel's Opening Report "does not map any claim or limitation of any Asserted Patent to 'Samsung's Sleeping and Deep Sleeping Features.'" Ex. C (Schonfeld Rebuttal Report) ¶¶ 158-61, 195-202.

17. Dr. Schonfeld's Rebuttal Report also offered undisputed opinions detailing various

reasons why “Samsung’s Sleeping and Deep Sleeping Features” do not infringe any asserted claim. *See, e.g.,* Ex. C (Schonfeld Rebuttal Report) ¶¶ 313-17, 367-70, 382-83, 421, 428, 431, 437, 439-40, 476, 477-78, 507, 509-10, 516-22, 525, 528, 530-31, 549-50, 582-88, 664-67, 691.

### III. GOVERNING LAW

“To prove infringement, the patentee must show that the accused device meets each claim limitation either literally or under the doctrine of equivalents.” *Catalina Mktg. Int’l, Inc. v. Coolsavings.com, Inc.*, 289 F.3d 801, 812 (Fed. Cir. 2002) (citing *Seal Flex, Inc. v. Athletic Track and Court Const.*, 172 F.3d 836, 842 (Fed. Cir. 1999)). “Literal infringement requires the patentee to prove that the accused device contains each limitation of the asserted claim.” *Id.* (citing *Mas–Hamilton Group v. LaGard, Inc.*, 156 F.3d 1206, 1211 (Fed. Cir. 1998)). “Summary judgment of no literal infringement is proper when, construing the facts in a manner most favorable to the nonmovant, no reasonable jury could find that the accused system [or feature] meets every limitation recited in the properly construed claims.” *Id.* Moreover, “[s]ummary judgment of noninfringement is appropriate where the patent owner’s proof is deficient in meeting an essential part of the legal standard for infringement, since such failure will render all other facts immaterial.” *Telemac Cellular Corp. v. Topp Telecom, Inc.*, 247 F.3d 1316, 1323 (Fed. Cir. 2001).

### IV. ARGUMENT

#### A. Dr. Wesel’s Report Fails to Allege that Samsung’s Sleeping and Deep Sleeping Features Satisfy *Any* Limitation of *Any* Asserted Independent Claim

Despite including several conclusory assertions that “Samsung’s Sleeping and Deep Sleeping Features” constitute “accused” or “infringing” features, Dr. Wesel’s Opening Report fails to demonstrate that those features satisfy *any limitation of any asserted independent claim*. Ex. C (Schonfeld Rebuttal Report) ¶¶ 158-61, 195-202; UMF 1-17.

As an initial matter, Dr. Wesel’s Opening Report alleges that “Samsung’s Sleeping and



Deep Sleeping Features” infringe the asserted claims of just the ’976 patent:

Patent	Enabled Accused Feature
’976 Patent	<ul style="list-style-type: none"> <li>• Data Saver</li> <li>• Doze</li> <li>• Sleep</li> <li>• Adaptive Battery</li> <li>• Adaptive Power Savings</li> <li>• Power Saving</li> <li>• App Standby</li> <li>• Deep Sleep</li> </ul>
’701 Patent	<ul style="list-style-type: none"> <li>• Data Saver</li> <li>• Power Saving</li> </ul>
’544 Patent	<ul style="list-style-type: none"> <li>• Doze</li> <li>• App Standby</li> <li>• Adaptive Power Saving</li> <li>• Power Saving</li> <li>• Adaptive Battery</li> </ul>
’433 Patent	<ul style="list-style-type: none"> <li>• Doze</li> <li>• App Standby</li> <li>• Adaptive Battery</li> </ul>
’578 Patent	<ul style="list-style-type: none"> <li>• Data Saver</li> </ul>
’224 Patent	<ul style="list-style-type: none"> <li>• Power Saving</li> <li>• App Standby</li> <li>• Adaptive Battery</li> </ul>
’184 Patent	<ul style="list-style-type: none"> <li>• Data Saver</li> </ul>
’445 Patent	<ul style="list-style-type: none"> <li>• Data Saver</li> <li>• Power Saving</li> <li>• App Standby</li> <li>• Adaptive Battery</li> </ul>

Ex. B (Wesel Opening Report) ¶ 2360 (listing the sleeping and deep sleeping features for just the ’976 patent); Ex. D (Wesel Dep. Tr.) at 131:1-11 (“Q. Q Let’s turn to paragraph 2360 of your opening report. A. Okay, I’m there at 2360. Q. Okay. The second column in the table below paragraph 2360 says, ‘Enable the accused feature.’ Do you see that? A. Yes, I see that. ***Q. Are those the features on which you intended to offer an opinion for the corresponding patent in the left-hand column? A. Yes.***”); see also Ex. B (Wesel Opening Report) at ¶¶ 2354-59; UMF 5.

However, Dr. Wesel never attempted to map any limitation of any ’976 patent claim to “Samsung’s Sleeping and Deep Sleeping Features” in his infringement analysis. See generally Ex. B (Wesel Opening Report) ¶¶ 146-607. He expressly conceded as much during his deposition:

**Q.** Okay. Well, do you ever mention sleeping or deep sleeping in the context of the '976 patent analysis?

**A.** Sitting here today, *I don't see where I've mentioned sleeping and deep sleeping in the '976 analysis.*

Ex. D (Wesel Dep. Tr.) at 176:2-7. There is no dispute that Dr. Wesel also failed to allege that the Sleeping and Deep Sleeping features satisfy any limitation of any independent claim of the other asserted patents. Ex. C (Schonfeld Rebuttal Report) ¶¶ 158-61, 195-202; UMF 6, 8-16.

As a result of Dr. Wesel's failure to allege that "Samsung's Sleeping and Deep Sleeping Features" satisfy any limitation of any independent claim for any asserted patent, no reasonable jury could find that these accused features infringe. *Catalina*, 289 F.3d at 812. Dr. Wesel's conclusory assertions that Sleeping and Deep Sleeping are "accused" and "infringe" fail to raise a genuine dispute of material fact. *Dynacore Holdings Corp. v. U.S. Philips Corp.*, 363 F.3d 1263, 1278 (Fed. Cir. 2004) (affirming summary judgment of non-infringement where patentee's experts only offered "conclusory" opinions that accused features infringe); *see also Schwing GmbH v. Putzmeister Aktiengesellschaft*, 305 F.3d 1318, 1326 (Fed. Cir. 2002) (finding patentee's expert's "conclusory statement" that "each and every feature of the claims are literally found in the modified valve design" to be insufficient to raise a genuine issue of material fact).

**B. Dr. Wesel's Report Fails to Demonstrate that Samsung's Sleeping and Deep Sleeping Features Satisfy Any Asserted Dependent Claims**

Dr. Wesel's Opening Report also failed to mention (except for claim 21 of the '544 patent) "Samsung's Sleeping and Deep Sleeping Features" for any asserted dependent claims of the eight Asserted Patents. Ex. C (Schonfeld Rebuttal Report) ¶¶ 158-61, 195-202; UMF 7-15. Indeed, when confronted with his failure to provide a limitation-by-limitation analysis of Sleeping and Deep Sleeping for the asserted claims, Dr. Wesel could only point to claim 21 of the '544 patent:

**Q.** In your report, you did not provide a limitation-by-limitation analysis of sleeping or deep sleeping against any of the asserted claims, is that correct?

A. I'm going to – I'm going to check my report for that.

Q. Sure, please do.

A. I think I do discuss the sleeping and deep sleeping features in my infringement analysis.

Q. Can you point me to a paragraph?

A. Well, for example, paragraph 2201 where this is *within the '544 patent, claim 21* where it talks about the Samsung sleeping and deep sleeping features store a network capacity controlled service list.

Ex. D (Wesel Dep. Tr.) at 172:4-18. Thus, there is no dispute that Dr. Wesel, and therefore Headwater, failed to offer *any evidence* that “Samsung’s Sleeping and Deep Sleeping Features” satisfy at least the following dependent claims:

- '976 patent: 2, 5, 8, 9, 12, 17, 18;
- '701 patent: 2, 4, 5;
- '184 patent: 13;
- '433 patent: 13, 14;
- '445 patent: 4;
- '544 patent: 6, 11, 18; and
- '224 patent: 3.

With respect to claim 21 of the '544 patent, the only claim in Dr. Wesel’s Opening Report even mentioning “Samsung’s Sleeping and Deep Sleeping Features,” Dr. Wesel failed to perform an infringement analysis. Ex. B (Wesel Opening Report) ¶ 2201. Rather, for claim 21 of the '544 patent, Dr. Wesel merely parrots the claim language, stating that “Samsung’s Sleep and Deep Sleeping features store a network capacity controlled service list, periodically updated based on monitored network service usage activities.” *Id.* (citing no support whatsoever for this statement). His conclusory opinion with respect to claim 21 of the '544 patent fails to give rise to any genuine dispute of material fact and is insufficient to show infringement of any asserted claim as a matter of law.

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\_\_\_\_\_

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Schonfeld, “[REDACTED]”

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.” *Id.* at ¶ 202 (citing Ex. B at

398

¶ 658 (same)). “[R]ather

than demonstrate infringement by Samsung's Sleeping and Deep Sleeping features, Dr. Wesel  
affirmatively states that [REDACTED]

\_\_\_\_\_ does not satisfy the Asserted Claims.” *Id.*

(citing Ex. B at ¶ 2397 ( [REDACTED] )).

Absent any infringement analysis from Dr. Wesel, Dr. Schonfeld's non-infringement

## V. CONCLUSION

Samsung requests that the Court grant summary judgment of no infringement with respect to Samsung's Sleeping and Deep Sleeping features.

Dated: May 10, 2024

Respectfully submitted,

By: /s/ Jared Hartzman

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**CERTIFICATE OF SERVICE**

I hereby certify that a true and correct copy of the foregoing document was filed electronically in compliance with Local Rule CV-5 on May 10, 2024. As of this date, all counsel of record had consented to electronic service and are being served with a copy of this document through the Court's CM/ECF system under Local Rule CV-5(a)(3)(A).

/s/ Jared Hartzman  
Jared Hartzman

**CERTIFICATE OF AUTHORIZATION TO FILE UNDER SEAL**

I hereby certify that the foregoing document is authorized to be filed under seal pursuant to the Protective Order entered in this case.

/s/ Jared Hartzman  
Jared Hartzman